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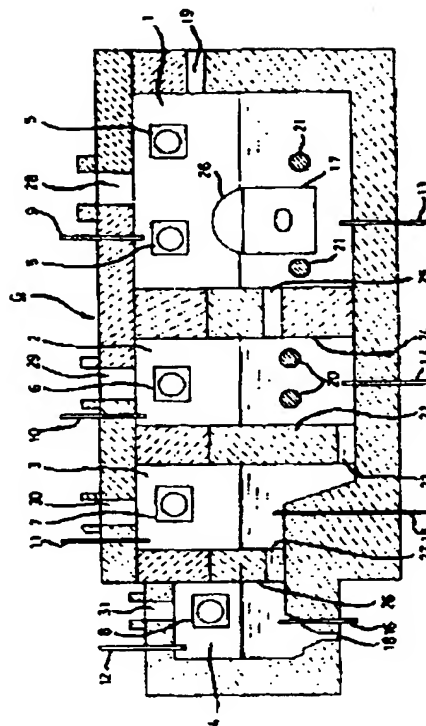
APPLICATION DATE : 17-05-82
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APPLICANT : AGENCY OF IND SCIENCE & TECHNOLOGY;

INVENTOR : UETSUKI MICHIO;

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TITLE : GLASS MELTING FURNACE



ABSTRACT : **PURPOSE:** To eliminate hindrance to the continuous operation of a glass melting furnace and to further refine glass by installing a submerged combustion burner to remove bubbles formed in molten glass.

CONSTITUTION: This glass melting furnace is composed of a melting vessel 1, a bubble removing vessel 2, a refining vessel 3 and a glass discharge section 4 arranged in the order. The partition wall 24 between the vessels 1, 2 is provided with a passage 25 for molten glass in the vicinity of the surface of the molten glass, and the partition wall 22 between the vessels 2, 3 is provided with a passage 23 for molten glass close to the bottoms of the vessels. A submerged combustion burner 17 is installed in the vessel 1. When town gas and air are fed to the burner 17 and burned, bubbles formed in molten glass in the vessel 1 are fine, the surface of the molten glass rises slightly, and bubbles are scarcely observed in the vessel 3.

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